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ABSTRACT

More than 2,000 documents about citations, citation analysis, citation indexes, and bibliometrics are cited in this bibliography. Some documents on communication in science, scientometrics, the science of science, and information retrieval have been included where they apply to citation indexing. Although most of the documents cited are in English, several documents in Russian and other languages are included. A subject (keyword) index to the citations is appended. Printed and online sources used in compiling the bibliography are listed. (SW)

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A BIBLIOGRAPHY OF BIBLIOMETRICS AND
CITATION INDEXING & ANALYSIS

Roland Hjerpe

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Introduction

The compilation of this bibliography was initiated in 1969 when a study was undertaken on the possibilities of using changes in citation frequencies to indicate the movements of a research front. Although the study did not yield any definite results it did awake an interest in the Science of Science, especially the growth of knowledge and scientific communication. The collection of references, and the reading of literature, on bibliometrics and citation analysis has been continued ever since, mostly as a pastime and personal interest. It was greatly assisted by the easy access to a major SDI-system, that of IDC - RITL. At an early stage a profile was formulated (since then modified many times) that has been used to scan the major databases, such as Science Citation Index and Social Sciences Citation Index, Government Reports Announcements, Educational Resources Information Center, and INSPEC.

The opportunity to do something to this unorganized collection came when Forskningsrådsnämnden (The Swedish Council for Planning and Coordination of Research) expressed an interest in a review of bibliometrics and citation analysis. The present bibliography, and the companion report "An outline of Bibliometrics and Citation Analysis" are the result of that assignment.

Scope and delimitations

The bibliography, which in its present form should be regarded as a first edition, is neither complete nor in all details consistent. Time has not permitted consistent application of some of the main elementary techniques, such as following up the references in relevant documents. Furthermore, not all documents included in the bibliography have been scrutinized by actual reading, some of them have been included on the basis of abstracts or because of having been included in other bibliographies. Yet, the bibliography is published in its present state with the hope that, with all its weaknesses, it will be of some use, and that the users will notify the compiler of all errors of omission and commission, so that a second and better edition might be produced.

Everything has been included that has been found on citations, citation analysis, citation indexes and bibliometrics. Some documents on communication in science, scientometrics, the science of science and information retrieval have been included where they provide a background considered to be interesting in the context. As a rule studies of library use and of the coverage of abstracting and indexing journals and services have been excluded. Studies or investigations where bibliometric techniques and citation analysis have been used as a tool or instrument have, however, been included. The papers by E. Garfield collected in his "Essays of an Information Scientist" have not been included.

Sources

The following sources have been used in compiling the bibliography:

- The SDI-service of the Information and Documentation Center of the Royal Institute of Technology (IDC-RITL) in Stockholm
- "Abstract journal. Informatics" (English translation of Referativnyi Zhurnal. Nauchnaja i tehničeskaja informacija)
- "Library and Information Science Abstracts"
- "Information Science Abstracts"
- "Dissertation Abstracts"
- The bibliography and citation indexing in "Science Citation Index 1978 Guide & lists of source publications (annual), 1978.
- Citation analysis: an annotated bibliography by Cozzens, Ivory, Laporte, Small & Stanley, produced by the Institute for Scientific Information, the edition of March 1978.
- The bibliography in "Bibliometrics" by Narin & Moll in Annual Review of Information Science and Technology, v. 12, 1977, p. 35-58

- The bibliography in the report "Evaluative Bibliometrics: The use of publication and citation analysis in the evaluation of scientific activity" by Narin.

Details of the bibliographies mentioned above can be found in the present publication.

The bibliography was originally up to date until May 1978, but because of the delay in production a number of references (mainly those found by the IDC-KTHB service) have been included so that material published by December 1979 is included. The period May 1978 - December 1979 is even less comprehensive than the rest of the bibliography.

Arrangement

The arrangement of the bibliography is alphabetical by the first author, for each author a chronological order is used. Works with several authors are thus interspersed among the works by the first author. Anonymous works are filed under corporate author, where existing, otherwise under title. Edited works have likewise been filed under title.

Acknowledgements

The compilation and writing of the associated analytical survey were done while the author was preparing a 2-year mission to Tanzania. Proof-reading was done in Tanzania (on an assignment to assist in establishing a research information service for the Tanzania National Scientific Research Council) with obviously insufficient library resources available at hand. These rather unusual circumstances have contributed to delays in production of the bibliography. The work would not have been published had it not been for the continuing support of Stephan Schwarz, the dedicated efforts of Malin Edström in tracing many brief and incomplete references, of Berit Lundberg and Maria Hedenström in transforming the material into bibliographically unified form and computerizing the file, typing and of Stefan Svanström in designing and programming for the input, output and index generation. The continued interest and encouragement of E. Garfield and H. Small, ISI, have been of great help in many aspects.

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KEY WORD INDEX

The production of the index to the bibliography is almost completely computerized. The bibliography file is used as input to the program. The outproducts from the program are two files. The first one contains every word from the titles in the bibliography along with the frequency of every word. As an example, the most frequent word is "of", and this word occurs 1750 times in the bibliography. The second output file contains the reference numbers relating to the records in the bibliography where a certain word occurs.

These two files are to be coupled to each other in the following way, when an index is produced: The printing program picks up a word and the number of occurrences from the first file, then reads exactly that number of reference indicator from the second file. In the printing program there is a switch with which it is possible to skip words with too many occurrences. This switch is set to 55 in this actual printing process. Both the bibliography and the index have been produced on the library's own minicomputer, a PDP-11/34. The programs which deals with the index has been developed in FORTRAN.

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